

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

1

of

**Complete if Known**

Application Number	10/601,351
Filing Date	June 23, 2003
First Named Inventor	Crafts, Harold S.
Art Unit	2812
Examiner Name	
Attorney Docket Number	000939-052170US

**U.S. PATENT DOCUMENTS+**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
DA	AA	US-2002/0153574 A1	10/24/2002	Crafts	
	AB	US-			
	AC	US-			
	AD	US-			
	AE	US-			
	AF	US-			
	AG	US-			
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	AN	US-			
	AO	US-			
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**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
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Sheet **2** of **2****Complete if Known**

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**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
OK	BC	CHANG, M. & CHEN, C. "PROMPT3 - A Cell-Based Transistor Sizing Program Using Heuristic and Simulated Annealing Algorithms." IEEE, 1989, pp. 17.2.1-17.2.4.	
	BD		
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		Number	Kind Code <sup>2</sup> (if known)			
<b>OH</b>	AA	US-4,742,383		05/03/1988	Fitzgerald	
<b>DA</b>	AB	US-5,410,173		04/25/1995	Kikushima et. al	
	AC	US-				
	AD	US-				
	AE	US-				
	AF	US-				
	AG	US-				
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Attorney Docket Number	000939-052170US

**NON PATENT LITERATURE DOCUMENTS**

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Page **1** of **3**

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First Named Inventor	Crafts, Harold S.
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Attorney Docket Number	000939-052170US

U.S. PATENT DOCUMENTS						
Examiner	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
001	AA	US-5,342,794		08/1994	Wei, Yi-Hen	
	AB	US-5,286,518		02/1994	Cain, et al.	
	AC	US-3,481,381		08/01/1969	Delivorias	
	AD	US-4,151,635		05/1979	Kashkooli et al.	
	AE	US-4,143,178		05/01/1979	Harada et al.	
	AF	US-4,229,756		10/21/1980	Sata et al.	
	AG	US-4,244,001		01/06/1981	Alfred C. Ipri	
	AH	US-4,317,690		03/02/1982	Koomen et al.	
	AI	US-4,525,809		08/25/1985	Chiba et al.	
	AJ	US-4,584,653		04/22/1986	Chih et al.	
	AK	US-4,593,205		08/03/1986	Bass et al.	
	AL	US-4,630,219		12/16/1986	DiGiacomo et a	
	AM	US-4,638,458		01/20/1987	Itoh	
	AN	US-4,682,202		07/21/1987	Tanizawa	
	AO	US-4,686,758		08/18/1987	Liu et al.	
	AP	US-4,701,642		10/20/1987	Pricer	
	AQ	US-4,845,544		07/04/1989	Shimizu	
	AR	US-4,849,344		07/18/1989	Desbiens et al.	
	AS	US-4,905,073		02/27/1990	Chen et al.	
	AT	US-4,989,062		01/29/1991	Takahashi et al.	
	AU	US-4,999,518		03/12/1991	Dhong et al.	
	AV	US-5,003,199		03/26/1991	Chuang et al.	
	AW	US-5,008,208		04/04/1991	Liu et al.	
	AX	US-5,013,679		05/07/1991	Kumagai et al.	
	AY	US-5,032,530		07/16/1991	Lowrey et al.	
	AZ	US-5,037,766		08/06/1991	Wang	
	BA	US-5,045,726		09/03/1991	Leung	
	BB	US-5,049,515		09/17/1991	Tzang	
	BC	US-5,081,518		01/14/1992	El-Dwany et al.	
	BD	US-5,124,776		06/23/1992	Tanizawa et al.	
	BE	US-5,126,279		06/30/1992	Roberts	
	BF	US-5,162,884		11/10/1992	Liou et al.	
	BG	US-5,168,072		12/01/1992	Moslehi	

Examiner Signature		Date Considered	4-07-04
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<sup>1</sup> EXAMINER: Initial reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>2</sup> Applicant's unique citation designation number (optional). <sup>3</sup> Kind Codes of U.S. Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>4</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>5</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>7</sup> Applicant is to place a check mark here if English language Translation is attached.

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Page **2** of **3**

Complete If Known

Application Number

Filing Date

First Named Inventor

Crafts, Harold S.

Art Unit

Examiner Name

Attorney Docket Number

000939-052170US

## U.S. PATENT DOCUMENTS

Examiner	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
DA	BH	US-5,175,118	12/29/1992	Yoneda	
	BI	US-5,225,991	07/06/1993	Dougherty	
	BJ	US-5,294,822	03/15/1994	Verrett	
	BK	US-5,296,755	03/22/1994	Miyamoto et al.	
	BL	US-5,298,805	03/29/1994	Garverick et al.	
	BM	US-5,313,079	05/17/1994	Brasen et al.	
	BN	US-5,313,101	05/17/1994	Harada et al.	
	BO	US-5,314,832	05/24/1994	Deleonibus	
	BP	US-5,341,049	08/23/1994	Shimizu et al.	
	BQ	US-5,388,055	02/07/1995	Tanizawa et al.	
	BR	US-5,432,707	07/11/1995	Leung	
	BS	US-5,444,285	08/22/1995	Robinson et al.	
	BT	US-5,452,245	09/19/1995	Hickman et al.	
	BU	US-5,539,224	07/01/1996	Ema	
	BV	US-5,541,120	07/30/1996	Robinson et al.	
	BW	US-5,654,898	08/05/1997	Roetscander et al.	
	BX	US-5,671,397	09/23/1997	Crafts	
DA	BY	US-5,869,900	02/09/1999	Crafts	
	BZ	US-6,289,466	07/31/2001	Crafts	

## FOREIGN PATENT DOCUMENTS

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Page 3 of 3	Attorney Docket Number	000939-052170US	

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
DA	CA	IBM Technical Disclosure Bulletin; Vol. 25, No. 4; September 1982; Structured Macro; E.H. STOOPS	
	CB	An Efficient Algorithm for some Mltirow Layout Problems; J. FELDMAN et al.; IEEE Transactions on Computer-Aided Design of Integrated Circuits & Systems; Vol. 12, No. 8, August 1993; pp. 1178-1185	
	AC	10K-Gate GaAs JFET Sea of Gates; H. KAWASAKI et al.; IEEE Journal of Solid-State Circuits; vol. 26, No. 10; October 1991; pp. 1367-1370	
	AD	A Comprehensive CAD System for High-Performance 300K-Circuit ASIC Logic Chips; J. PANNER et al.; IEEE Journal of Solid-State Circuits; vol. 26, No. 3; March 1991; pp. 300-309	
	AE	A Design-System for ASIC's with Macrocells; B. KORTE et al.; IEEE, Euro ASIC '90; 1990; PP. 220-224	
	AG	GaAs MESFET and SiCMOS Cointegration & Circuit Techniques; H. SHICHIJO et al.; IEEE, GaAs IC Symposium, September 1988; pp. 239-242	
	AG	Application of AlGaAs/GaAs HBT's to High-Speed CML Logic Family Fabrication; M. MADIHIAN et al.; IEEE Transactions on Electron Devices, Vol. 36, No. 4, April 1989; pp. 625-631	
	AH	Combining Partitioning and Global Routing in a Sea-of-Cells Design; B. KORTE et al., IEEE Computer-Aided Design; 1989 International Conference; pp. 98-101	
	AI	Size Optimization for CMOS Basic Cells of VLSI, IEEE, pp. 2180-2183, HSIEH et al.	
	AJ	Dependence of Spice level 3 Model Parameters with transistor Size, IEEE, pp. 84-89, PERELLO et al.	
	AK	BACHELU et al. "A Study of the Use of Local Interconnect in CMOS Leaf Cell Design," IEEE, pp. 566-570, 1993	
	AL	BACHELU et al. "A Study of the Use of Local Interconnect in CMOS Leaf Cell Design," IEEE, pp. 1258-1261, 1992	
DA	AM	BARTELINK et al. "Interconnect for Submicron ASICs," IEEE, pp. 59-62, 1989	

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